

Re: How to run tasks with priority?

Source: <http://coding.derkeiler.com/Archive/Java/comp.lang.java.help/2005-06/msg00262.html>

- *From:* "George George via JavaKB.com" <forum@xxxxxxxxxxx>
 - *Date:* Sun, 12 Jun 2005 09:16:51 GMT
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Thanks Boudewijn,

Boudewijn Dijkstra wrote:

>> Thanks Boudewijn,
>>
>[quoted text clipped – 23 lines]
>> program. So I have tried and used performance monitor of task manager of
>> Windows XP (invoked from "My Computer") to monitor CPU usage. Am I correct?
>
>That is fine for this example. ;)
>
>> I have found that when yield is running, the CPU usage is very high, and
>> when sleep is running, the CPU usage is very slow. Do you know why when
>> running yield, CPU usage is high? What is CPU busy doing at that time (in
>> my mind, I think CPU has nothing to do when running yield, just as when
>> running sleep)?
>
>The API documentation description of yield() is a bit cumbersome. But it is
>enough for those who are educated in the most important concepts of task
>scheduling. Sensing that you are not, I will explain what happens when
>yield() is called.
>
>1. The current thread is paused, but remains ready to run.
>2. The task scheduler checks the current priority queue for threads (other
>than the current one) that are ready to run.
>3a. If there are, then perform a task-switch to the first one.
>3b. If there aren't, then un-pause the current thread.
>
>Note that, although the current thread is suspended, the CPU always has
>something to run during steps 1,2,3.

Your description is very helpful and it has answered my question. Do you know whether there exists a tool which can monitor what threads are running on a VM and how much running time they have allocated from VM, just like the performance monitor of task manager of Windows XP (invoked from "My Computer")? If there exists such a tool in Java, it will make our work very convenient, isn't it? :-)

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>> Another small issue is that, why you use join method in your getFinalScore
>> method? I have not seen its special functons yet.

>

>When 'running' is set to false, the thread does not immediately exit. By
>calling join(), the thread that executes getFinalScore() waits for it to exit
>so that it can fetch the *final* score.

>

Your idea of using join is very intelligent!

regards,
George

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Message posted via <http://www.javakb.com>

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• *Follow-Ups:*

- ◆ **[Re: How to run tasks with priority?](#)**

◇ *From:* Boudewijn Dijkstra

• *References:*

- ◆ **[Re: How to run tasks with priority?](#)**

◇ *From:* George George via JavaKB.com

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